CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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QC ABSTRACT

Nameof Work: Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials	-	1	1	Pass
2	M20	17.96 Cum	3	3	Pass
3	Paver Blocks -50mm	194.71 Sqm	1	1	Pass
4	Precast Slab 100mm	354.12 Sqm	1	1	Pass
5	Kerb Stones	1099.00 Nos	1	1	Pass
6	WMM	29.13 Cum	-	-	-
		Gradation	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Atterberg Limits	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/RP/W.No.03/2022-23

Date: 21.12.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
AGENCY	:	**Sri. Ravichandra P,** Contractor, Bangalore.
NAME OF THE WORK	:	Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	November – 2022
DATE OF TESTING	:	19.12.2022 TO 21.12.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	348 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

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Date : 21.12.2022

Job No.: CACE/BBMP/RP/W.No.03/2022-23

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ravichandra P, Contractor, Bangalore.**

Name of Work :Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing : 21.12.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	72	7.20	7.20	92.8	90-100
2.36	122	12.20	19.40	80.6	75-100
1.18	179	17.90	37.30	62.7	55-90
600 Micron	145	14.50	51.80	48.2	35-59
300 Micron	224	22.40	74.20	25.8	8-30
150 Micron	129	12.90	87.10	12.9	0-10

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Date :21.12.2022

Job No.: CACE/BBMP/RP/W.No.03/2022-23

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ravichandra P, Contractor, Bangalore.**

Name of Work :Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing :21.12.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	29	2.90	2.90	97.1	90-100
1.18	53	5.30	8.20	91.8	70-100
600 Micron	99	9.90	18.10	81.9	40-100
300 Micron	248	24.80	42.90	57.1	5-70
150 Micron	493	49.30	92.20	7.8	0-15

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Date : 21.12.2022

Job No.: CACE/BBMP/RP/W.No.03/2022-23

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ravichandra P, Contractor, Bangalore.**

Name of Work :Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing : 21.12.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	179	3.6	3.6	96.4	95-100
10	2429	48.6	52.2	47.8	25-55
4.75	1945	38.9	91.1	8.9	0-10

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Date: 10.01.2023

Job No.: CACE/BBMP/RP/W.No.03/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ravichandra P, Contractor, Bangalore.**

Name of the work : Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2023	10.01.2023	8.138	349.4	15.53
2	03.01.2023	10.01.2023	8.144	347.2	15.43
3	03.01.2023	10.01.2023	8.152	348.1	15.47

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Date: 10.01.2023

Job No.: CACE/BBMP/RP/W.No.03/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ravichandra P, Contractor, Bangalore.**

Name of the work : Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2023	10.01.2023	8.150	340.9	15.15
2	03.01.2023	10.01.2023	8.149	346.2	15.39
3	03.01.2023	10.01.2023	8.142	339.1	15.07

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Job No.: CACE/BBMP/RP/W.No.03/2022-23

Date: 31.01.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ravichandra P, Contractor, Bangalore.**

Name of the work : Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2023	31.01.2023	8.167	504.8	22.44
2	03.01.2023	31.01.2023	8.172	509.3	22.64
3	03.01.2023	31.01.2023	8.179	512.7	22.79

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Job No.: CACE/BBMP/RP/W.No.03/2022-23

Date: 11.01.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ravichandra P, Contractor, Bangalore.**

Name of the work : Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.01.2023	11.01.2023	8.101	351.7	15.63
2	04.01.2023	11.01.2023	8.119	352.9	15.68
3	04.01.2023	11.01.2023	8.145	348.3	15.48

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Date: 12.01.2023

Job No.: CACE/BBMP/RP/W.No.03/2022-23

KERB STONE (CORE) TEST REPORT

Client : : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,

Agency : : Sri. Ravichandra P, Contractor, Bangalore.

Name of Work : :Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 12.01.2023

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	71.00	0.342	2453.23	1.42	0.937	25.90	13.19	14.25	13.35	16.69
2	50.00	72.00	0.349	2468.67	1.44	0.940	26.30	13.39	14.47	13.59	16.99
3	50.00	73.00	0.550	3837.16	1.46	0.942	26.80	13.65	14.74	13.88	17.35

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Job No.: CACE/BBMP/RP/W.No.03/2022-23

Date : 18.01.2023

ATTERBERG LIMITS TEST FOR WMM

Client **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency **Sri. Ravichandra P, Contractor, Bangalore.**

Name of Work Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 16.01.2023 to 18.01.2023

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CCACE/BBMP/RP/W.No.03/2022-23

Date : 18.01.2023

GRADATION FOR WMM

Client: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency: **Sri. Ravichandra P, Contractor, Bangalore.**

Name of Work: Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 18.01.2023

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	159	159	1.6	98.4	95-100
22.4	2522	2681	26.8	73.2	60-80
11.2	2163	4844	48.4	51.6	40-60
4.75	1843	6687	66.9	33.1	25-40
2.36	1175	7862	78.6	21.4	15-30
0.600	622	8484	84.8	15.2	8-22
0.075	1234	9718	97.2	2.8	0-5

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Job No.: CACE/BBMP/RP/W.No.03/2022-23

Date : 18.01.2023

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**Sri. Ravichandra P, Contractor, Bangalore.**
Name of Work	Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	18.01.2023

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	13.10	13.30	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.40	13.70	
	Combined Flakiness & Elongation index	26.50	27.00	

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Job No.: CACE/BBMP/RP/W.No.03/2022-23

Date: 18.01.2023

Aggregate Impact Value

Client	**Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**Sri. Ravichandra P, Contractor, Bangalore.**
Name of the Work	Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	18.01.2023

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	88.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	294.5	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	21.71	23.11	**22.41**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specicatuon table 400.12)

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the samples collected at the site.

→ Any Query regarding the report must be reported within 30 days from the date of testing.

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

No.: **CACE/BBMP/RP/W.No.03/2022-23** Date: 24.01.2023

TEST REPORT

Client	:	**Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	:	**Sri. Ravichandra P,** Contractor, Bangalore.
Name of the work	:	Repairs and maintenance of Footpath in ward no. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. **THICKNESS:**

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	50.14	50.15
2	02	50.16	

2. **COMPRESSIVE STRENGTH:**

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	696.5	24,200	28.74	287.4	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	697.9	24,200	28.88	288.8	

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